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S/181/60/002/010/003/051
B019/B070

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AUTHORS:

Zhdanovich, N. S., Konopleva, R. F., Ryvkin, S. M.

TITLE:

Annealing-out of Defects Formed by Gamma Rays in n-Type Germanium γ

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 10, pp. 2356-2358

TEXT: When the defects produced in n-type germanium by irradiation with γ rays are removed by annealing, the decrease shows a nonexponential character. For an explanation of this it is necessary to consider the diffusion of the interstitial atoms and vacancies (Refs. 2,3). Fig. 1 shows the fraction φ of the defects removed by annealing as a function of \sqrt{t} for annealing temperatures of 120, 140, and 160°C, t being the annealing time. The experimental values are seen to agree with the theory mentioned in the introduction. Similar results are obtained on bombardment by electrons and neutrons. The activation energy for the diffusion of the defects is found to be 1.01 ev. For comparison, analogous values obtained on irradiation with neutrons (1.12 ev) and with electrons (1.36 and 1.3 ev) are given (Refs. 1,3,4,5). Fig. 2 shows φ as a function

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Annealing-out of Defects Formed by Gamma Rays
in n-Type Germanium

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of $Z = (4Dt/r_0^2)^{1/2}$. It is found that the experimental and theoretical values agree well for $\lambda = 0.5$ and $D_0/r_0^2 = 1.3 \cdot 10^9$ per second. r_0 is, thus, found to be $2.8 \cdot 10^{-7}$ cm, and so somewhat larger than that obtained in the case of neutron bombardment. Fig. 3 shows that by increasing the γ -quantum flux the removal of defects by annealing is more rapid. The linear part of the curve is also reduced. In the conclusion it is stated that the theory of the removal of defects by annealing which is confined to diffusion is unable to explain some important properties which are possibly connected with the interaction of defects with other structural perturbations. There are 3 figures and 6 references: 2 Soviet and 4 US.

ASSOCIATION: Fiziko-tekhnicheskii institut AN SSSR, Leningrad (Institute of Physics and Technology of the AS USSR, Leningrad)

SUBMITTED: March 17, 1960

Card 2/2

STRUKOV, I.T.; ZHDANOVICH, Yu.V.

4-Thiazolidinecarboxylic acid and its derivatives.

Part 10: Transformations of 4-chloro- and

4-aminomethylene-2-phenyl-5-oxazolones. Zhur.ob.khim.

33 no.3:910-917 Mr '63.

(MIRA 16:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut
antibiotikov (VNIIA), Moskva.

(Oxazolinone)

POLUKAROV, A.N.; KUPCHENKO, M.M.; Prinimali uchastnye: CHERNOBAY, A.I.;
MALYSHEVA, P.I.; ZHDANOVICH, Yu.V.; KOKAREV, A.V.; KOLTYSHEV, D.I.

Tellurium recovery from copper-electrolysis slime into sodium
slag. TSvet. met. 33 no.8:56-57 Ag '60. (MIRA 13:8)

(Copper--Electrometallurgy)
(Tellurium)

| PROCESSING AND PREPARATION | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| <div style="position: absolute; top: 10px; left: 10px; font-size: 2em; font-family: cursive;">Ca</div> <div style="position: absolute; top: 10px; right: 10px; font-size: 2em; font-family: cursive;">14</div> <div style="position: absolute; top: 200px; left: 350px; width: 600px;"> <p>Amsh-Bulat mirabilite lake. — A. V. Zhdanovskii and D. I. Ryabchikov. <i>Ann. scienc. anal. chim. (U. S. S. R.)</i> 13, 303-75 (1960). — Analytical data are recorded. The brine is of the sulfate type. During the winter months mirabilite is deposited in very large amt. from the lake water. Methods of utilizing the residual brine for prepn. of MgCl₂ and bromides are discussed.</p> <p style="text-align: right;">B. C. P. A.</p> </div> | | | | | | | | | |
| <div style="display: flex; justify-content: space-between;"> ASB-36A METALLURGICAL LITERATURE CLASSIFICATION RESEARCH AND DEVELOPMENT </div> | | | | | | | | | |
| <div style="display: flex; justify-content: space-between;"> RESEARCH AND DEVELOPMENT RESEARCH AND DEVELOPMENT </div> | | | | | | | | | |

ZHDANOVSKIY, V.P.

We are improving production methods and equipment. Hidroliz. i
legokhim. prom. 14 no.6:16-18 '61. (MIRA 14:9)

1. Sverdlovskiy sovarkhoz.
(Sverdlovsk Province--Hydrolysis)
(Sverdlovsk Province--Wood--Chemistry)

ZHDANOVSKIY, A.B.; LYAKHOVSKAYA, Ye.I.; SHLEYMOVICH, R.E.; BUKSHTEYN, V.M., redaktor; VALYASHKO, M.G., redaktor; PEL'SH, A.D., redaktor; KOTS, V.A., otvetstvennyy redaktor; LEVIN, S.S., tekhnicheskiiy redaktor; ERLIKH, Ye.Ya., tekhnicheskiiy redaktor.

[Handbook of experimental data on the solubility of multicomponent water-salt systems] Spravochnik eksperimental'nykh dannykh po rastvorimosti mnogokomponentnykh vodnosolevykh sistem. Leningrad, Gos.nauchno-tekhn.isd-vo khim.lit-ry. Vol.2.[Quaternary and more complex systems] Chetyrekhkomponentnye i bolee slozhnye sistemy. 1954. 1269 p. (MLRA 8:3)

(Solubility)(Salts)(Systems (Chemistry))

ZHDANOVSKIY, K.T.; NETREBKO, P.G.; RABINOVICH, G.V.; SUKONNIK, M.A.;
~~TOVAROVSKIY, I.G.~~

Blast furnace operations on sinter with the fine fraction sifted
out. Metallurg 10 no.12:3-5 D '65. (MIRA 18:12)

1. Krivorozhskiy metallurgicheskiy zavod.

ZHDANOVSKIY, K.I.

BRUK, A.S., professor, doktor tekhnicheskikh nauk; GERMAN, M.Ya.,
doktor, kandidat tekhnicheskikh nauk; KOROBOV, I.I., inzhener;
ZHDANOVSKIY, K.T., inzhener; LIBERZON, E.A., inzhener.

Investigating the aerodynamic properties of bulk piles of coke.
Stal' 7 no.2:101-105/ '47. (MLRA 9:1)

(Coke)

YESKIN, V., traktorist (der.V.Berezovka, Yelovskiy rayon, Permskaya oblast');
ZHDANOVSKIY, N., prof., doktor tekhn.nauk; MORSHIN, A., kand.tekhn.
- nauk

Determination of the power rating of an engine. Sel',mekh.
no.3:35-37 '62. (MIRA 15:3)
(Tractors—Engines)

L 33749-66 EWT(m)/T WE

ACC NR: AR6017326

(A)

SOURCE CODE: UR/0273/66/000/001/0045/0045

AUTHOR: Zhdanovskiy, N. S.; Gitlin, N. N.; Nikolayenko, A. V.; Kozhushko, K. I.

TITLE: Jet ignition is an effective means of increasing economy and completeness of combustion in automotive engines working on gasoline and liquified gas

SOURCE: Ref. zh. Dvigateli vnutrennego sgoraniya, Abs. 1.39.337

REF SOURCE: Zap. Leningr. s.-kh. in-ta, v. 97, 1965, 181-189

TOPIC TAGS: ignition, combustion research, engine ignition system, fuel consumption

ABSTRACT: Jet ignition is an effective means of increasing fuel economy in serial automotive engine working on gasoline and liquified gas. The more active flow of the combustion process results in decreasing the carbon dioxide content in exhaust gases, compared to spark ignition. This holds true for both gasoline and liquified fuels.

SUB CODE: 13/ SUBM DATE: none

Card 1/1

BIG

ZHDANOVSKIY, Nikolay Stepanovich; ZUYEV, Aleksey Ivanovich; CHAPSKIY,
O.U., red.; BARANOVA, L.G., tekhn. red.

[Testing and running of tractor engines without braking
(under operating conditions)] Bestormoznaia proverka i ob-
katka traktornykh dvigatelei (v ekspluatatsionnykh usloviakh)
Leningrad, Sel'khozizdat, 1962. 53 p. (MIRA 15:9)
(Tractors--Engines--Testing)

ZHDANOVSKIY, N. S., doktor tekhn. nauk; GITLIN, N. N., kand. tekhn. nauk; NIKOLAYENKO, A. V.

Investigating the performance of the GAZ-21 engine with flame ignition in case of carburetor mixing and fuel injection. Avt. prom. 28 no.9:3-8 S '62. (MIRA 15:10)

1. Tsentral'nyy nauchno-issledovatel'skiy i konstruktorskiy institut toplivnoy apparatury avtotraktornykh i statsionarnykh dvigateley i Leningradskiy sel'skokhozyaystvennyy institut.

(Motor vehicles—Engines—Testing)

ZHDANOVSKIY, N. S. Doc Tech Sci -- (diss) "Scientific bases of brakeless tests
of tractor and automobile motors." Len, 1957. 39 pp (Min of Agr USSR. Len Agr
Inst. Engineering Faculty) 140 copies (KL, 43-57, 88)

ZHDANOVSKIY, N. S. and D'IAKOV, D. N.

Kharakteristiki effektivnosti i ekonomichnosti dvigatelei otechestvennykh traktorov. Moskva, Mashgiz, 1949. 83 p. diages.

Characteristics of the effectiveness and efficiency of Soviet traction engines.

DLC: TI210.D5

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

ZHDANOVSKIY, N.S.

29194 Sravnitel'snoe issledovanie sposobov eksperimental'nogo opredileniya mekhanicheskikh poter' abtotraktornykh dvigateley. Sbornik nauch-tekhn. rabot (Leningr. int mekhanizatsii sel. Khoz-va,) VI, 1949, S. 44-77

SO: Letopi' Zhurnal'nykh Statey, Vol. 39, Moskov, 1949

ZHDANOVSKIY, N.S.

29193 Issledovanie teplazhogo Rezhima gil'zy Rabot (Leningr. in-t mekhanisatsii
sel. Khoz-va,) VI, 1949, S. 78-98

SO: Letopis' Zhurnal'nykh Statey, Vol. 39, Moskov, 1949

ZHDANOVSKIY, N. S.

Rural thermal electric power station Moskva, Gos, izd-vo sel'khoz,
lit-ry, 1953. 123 p. (V pomoshch'sel'skim elektrifikatoram) (54-33406)

TK1193.R9Z5

D'YACHENKO, Nikolay Kharitonovich, doktor tekhn. nauk, prof.; DASHKOV, Sergey Nikitich, doktor tekhn. nauk, prof.; MUSATOV, Vitaliy Sergeyevich, kand.tekhn.nauk; BELOV, Pavel Mitrofanovich, kand. tekhn.nauk,prof.; BUDYKO, Yuriy Ivanovich, kand.tekhn.nauk. Primarni uchastiye: BURYACHKO, V.R.; GUGIN, A.M.; ZHDANOVSKIY, N.S., doktor tekhn. nauk,prof., retsenzent; YURKEVICH, M.P., inzh., red. izd-va; PETERSON, M.M., tekhn. red.

[High-speed piston internal combustion engines] Bystrokhodnye porshnevye dvigateli vnutrennego sgoraniia. Moskva, Mashgiz, 1962. 368 p. (MIRA 15:7)

(Gas and oil engines) (Diesel engines)

ZHDANOVSKIY, N.S.

Automobiles - Motors

Determining mechanical losses of automobile and tractor engines by the method of cylinder elimination. Avt.trakt.prom., no. 6, 1952.

MONTHLY LIST OF RUSSIAN ACCESSIONS, LIBRARY OF CONGRESS, OCTOBER 1952. UNCLASSIFIED.

AKATOV, Yevgeniy Ivanovich; BELOV, Pavel Mitrofanovich; D'YACHENKO,
Nikolay Kharitonovich, prof., doktor tekhn.nauk; MUSATOV,
Vitaliy Sergeyevich; ZHDANOVSKIY, N.S., doktor tekhn.nauk,
retsensent; DUBUSOVA, G.A., red.izd-va; FRUMKIN, P.S., tekhn.red.

[Performance of a motor-vehicle engine under unsteady conditions]
Rabota avtomobil'nogo dvigatelya na neustanovivshemsia rezhime.
Pod red. N.Kh.D'iachenko. Moskva, Gos.nauchno-tekhn.izd-vo mashino-
stroit.lit-ry, 1960. 247 p. (MIRA 13:4)
(Motor vehicles--Engines)

ZHDANOVSKIY, N.S., doktor tekhn.nauk

Loading of tractors by towing in traction tests. Trakt. i sel-
khoz mash. 32 no.3:18-20 Mr '62. (MIRA 15:2)

1. Leningradskiy sel'skokhozyaystvennyy institut.
(Tractors--Testing)

ZHDANOVSKIY, S.N., starshiy elektromekhanik

Use plastics for staffs. Avtom. telem. i svyaz' 2 no.12:35 D '58.
(MIRA 11:12)

1. Orshanskaya distantziya signalizatsii i svyazi Beloruskey deregi.
(Railroads--Equipment and supplies)

BISIKALOVA, V.H.; PREDTCHENSKIY, A.N.; ZHDANOVSKIY, V.I.

Effect of drug-induced sleep on the course of the vaccination process
in rabbits vaccinated with living tularemia vaccine. Zhur.
mikrobiol.epid. i immun.28 no.12:98-101 D '57. (MIRA 11:4)

1. Iz Saratovskogo meditsinskogo instituta.

(TULAREMIA, immunology,

vacc. with living vaccine, eff. of sleep ther. in rabbits
(Rus)

(SLEEP, effects,

on immun. response to living tularemia vaccine in rabbits
(Rus)

| 1ST AND 2ND ORDERS | | | | | | | | | | 3RD AND 4TH ORDERS | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--------------------|--|--|--|--|--|--|--|--|--|
| PROCESS AND PROPERTIES INDEX | | | | | | | | | | | | | | | | | | | |
| <div style="display: flex; justify-content: space-between;"> BC B-27 </div> <p>Oil from Kuban <i>Perilla ocumoides</i> seeds. M. ZIMAN-PRANITS (Makobolno-Zhir, Delo, 1922, No. 2, 41-47). The seeds contain moisture 6.30, protein 23.12, oil 45.07, nitrogen-free extractive matter 10.28, crude fibre 10.29, ash 4.64, essential oil 0.20%. The essential oil of 0.0004, has saponif. value 24.8, acid value 2.6, ester value 23.2. It polymerizes, with thickening, when heated. The fatty oil has acid value 1.0, saponif. value 180.06, ester value 180.06, Reichert-Meissl value 1.48, Polenske value 1.62, acetyl value 0.71, iodine value 203.06, hexabromide value 63.65, unsaponifiable matter 0.3%, Hahnle value 95.8. The fatty acids were examined. CHEMICAL ABSTRACTS.</p> | | | | | | | | | | | | | | | | | | | |
| <div style="display: flex; justify-content: space-between;"> ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION 4-27-27, 12-20 </div> | | | | | | | | | | | | | | | | | | | |
| 1ST AND 2ND ORDERS | | | | | | | | | | 3RD AND 4TH ORDERS | | | | | | | | | |

ZHDAN-PUSHKIN, A. A.; BYALIK, V. L.; KLEIN, E. G.

"The So-called Acute Catarrhal Appendicitis," Voenno-Med. Zhur., No. 11,
p. 53, 1955.

CA

PROCESSING AND PREPARATION

Reworking of crushed castor beans on the worm-screw press. A. I. Zhukov, M. Zhukov-Lushkin, A. Zaslavsky and I. Nagel. *Moskovskoe Khimicheskoe Obozreniye* 13, No. 4, 8-9 (1930).--Certain advantages of final expression of oil from forepan castor-bean oil meal with the aid of worm-screw press are discussed. The procedure is described and diagrams of app. are given. Chas. Blanc

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

| FROM 1701219A | IN 1900 1419 019 001 | RELATION | RELATION 019 001 |
|---------------|----------------------|----------|------------------|
| 1701219A | 1419 019 001 | RELATION | RELATION 019 001 |

ORLOV, I.V., kand.tekhn.nauk, dotsent; ZHDAN-PUSHKINA, G.P., inzh.

Conventional symbols for the flow sheet of the manufacture of
a garment. Izv.vys.ucheb.zav.; tekhn.prom. 3:150-155 '62.
(MIRA 15:6)

1. Kiyevskiy tekhnologicheskoy institut legkoy promyshlennosti
(for Orlov). Kiyevskiy Dom modeley (for Zhdan-Pushkina).
(Clothing industry)

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064630003-7

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064630003-7"

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064630003-7

ZHOAN PIKURINA S.M.

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064630003-7"

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064630003-7

W. J. A. L. P. H. N. A. S. M.

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064630003-7"

ZHDAN-POSKINA-S.M.

mil ✓ Influence of inoculated cultures on the process of organic
oxidation by Acetobacter suboxydans
where the Mg^{2+} concentration was
varied. The results show that the
rate of oxidation increases with the
concentration of Mg^{2+} up to a certain
point, after which it decreases. The
optimal concentration of Mg^{2+} for
the maximum rate of oxidation is
found to be 10^{-3} M. The results also
show that the rate of oxidation is
independent of the concentration of
the substrate. The results are
discussed in terms of the mechanism
of the reaction.

ZHDAN-PUSHKINA, S.M.

HAZUMOVSKAYA, Z.G.; ZHDAN-PUSHKINA, S.M.

Oxidation of sorbitol to sorbose in a medium with increased concentrations of sorbitol. Uch.zap.Len.un. no.216:38-48 '56. (MLRA 10:3)

(SORBITOL) (SORBOSE) (ACETOBAR)

ZHDAN-PUSHKINA, S.M.

Oxidation of increased concentrations of sorbitol in a medium
containing mineral nitrogen. Uch.zap. Len.un. no.216:49-56 '56.
(MIRA 10:3)

(SORBITOL) (SORBOSE) (AMMONIUM SULFATE) (ACETOBACTER)

ZHDAN-PUSHKINA, S.M.; KRENEVA, R.A.

Sorbite oxidation during intensive and delayed reproduction of
Acetobacter suboxydans. Mikrobiologiya 32 no.4:711-716 J1-Ag '63.
(MIRA 17:6)

1. Leningradskiy gosudarstvennyy universitet imeni A.A. Zhdanova.

KOZ'MINA, O.P.; KURLYANKINA, V.I.; ZHDAN, PUSHKINA, S.; MOLOTKOV, V.A.

Mechanism of the oxidation of cellulose ethers by oxygen. Part 12:
Synthesis and oxidation of ethyl cellulose based on cellulose tagged
with radiocarbon at the glucoside C atom. Vysokom.sped. 5 no.4:
492-495 Ap '63 (MIRA 16:5)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR i
Leningradskiy gosudarstvennyy universitet.
(Cellulose ethers) (Oxidation) (Carbon isotopes)

ZHDAN-PUSHKINA, S.M.

Yeast filtrate as a culture medium for bacteria oxidizing sorbitol into sorbose [with summary in English]. Mikrobiologiya 28 no.1:93-98 (MIRA 12:3)
Ja-F '59.

1. Leningradskiy gosudarstvennyy universitet imeni A.A. Zhdanova.
(ACETOBACTERIUM, culture,
on yeast-filtrate medium (Rus)).
(YEASTS, DRIED,
filtrates as culture medium for Acetobacter (Rus))

USSR/Microbiology - General Microbiology .

F-1

Abs Jour : Ref Zhur - Biol., No 3, 1958, 9750

Author : Razumovskaya, Z.G., Zhdan-Pushkina, S.M.

Inst : -

Title : Characteristics of Sorbose-Forming Bacteria, Depending on Cultivation Conditions.

Orig Pub : Vestn. Leningr. un-ta, 1956, No 15, 107-116

Abstract : Increased aeration exerts an especially powerful effect on bacterial multiplication during the initial hours of culture development and somewhat increases the numbers of bacteria. In media containing little nutrient, the lag-phase is lengthened and the entire process of propagation is very sluggish. An excess of nutrient substances in the lag-phase is also unfavorable to bacterial multiplication, and only in the final hours of culture development does the presence of increased nutrient substance secure an increase in numbers of bacteria. An increase in sorbitol concentration

Card 1/2

ZHDAN-PUSHKINA, S.M.

USSR / Microbiology. Technical Microbiology.

F-3

Abs Jour: Referat Zh.-Biol., No 6, 25 March, 1957, 21886

Author : Razumovskaya, Z.G., Zhdan-Pushkina, S.M.

Inst :

Title : The Influence of the Planting Cultures on Sorbitol Oxidation by
Acetobacter suboxydans.

Orig Pub: Mikrobiologiya, 1956, 25, No 1, 16-24

Abstract: Observations on the development of a culture of A. suboxydans showed that, depending on the conditions of aeration and on the composition of the bacterial nutrient medium, separate reproductive phases occur at different times. Bacteria in the same phases of development, but under different conditions of cultivation, may differ in the number of cells, as well as in their physiological states, which becomes significant in utilizing these cultures as planting material. It was established that bacteria which are in a state of active reproduction in the logarithmic phase, when utilized as an inoculum, bring about oxi-

Card : 1/2

-24-

USSR / Microbiology. Technical Microbiology.

F-3

Abs Jour: Referat Zh.-Biol., No 6, 25 March, 1957, 21886

dation of sorbitol less actively than bacteria taken at a later stage of culture development. The aeration conditions under which the seeding material was cultivated are of great importance. Bacteria cultivated under conditions of heightened aeration oxidize sorbitol more actively than in the surface method of cultivation. The increase in the final yeast moisture (dry residue 0.95%) reacts negatively on the activity of the planting culture. A medium with an increased concentration of B-complex (5%) is recommended as a nutrient medium for an active planting material for sorbitol production.

Card : 2/2

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ZHDANOVSKIY, N.S., doktor tekhn. nauk, prof.; FAYNLEYB, B.N., kand. tekhn. nauk;
ZUBRITSKIY, B.N., inzh.

Effect of the intensity of the process of combustion on the wearing
rate of piston rings. Trakt. i sel'khoz mash. no.9:3-5 S '64.

(MIRA 17:11)

1. Tsentral'nyy nauchno-issledovatel'skiy i konstruktorskiy institut
toplivnoy apparatury avtotraktornykh i statsionarnykh dvigateley i
Leningradskiy sel'skokhozyaystvennyy institut.

ZHDANOVSKIY, Nikolay Stepanovich -- awarded sci degree of Doc Tech Sci
for the 22 Oct 57 defense of dissertation: "Scientific bases for the
dragless [bestormoznyy - "brakeless"] testing of tractor and automobile
motors" at the Council, Leningrad Agric Inst; Prot No 12, 17 May 58.
(BMVO, 10-58,23)

ZHDANOVICH, V.F.

Asymptotic expansions in eigenvalues of a boundary value problem
with a parameter. Dokl. AN SSSR 135 no.6:1318-1321 D '60.

(MIRA 13:12)

1. Predstavleno akademikom I.G. Petrovskim.
(Boundary value problems)

ZHDANOVICH, Vasil'y Mikhaylovich; RUMYANTSEV, A.T., red.; GUREVICH, M.M.,
tekhn. red.

[Guarantee of high crop yields; accumulation and utilization of
local fertilizers on White Russian collective farms] Zalog vysokogo
urozhaiia; iz opyta nakopleniia i primeneniia mestnykh udobrenii v
belorusskikh kolkhozakh. Moskva, Gos. izd-vo sel'khoz. lit-ry,
1960. 31 p. (MIRA 14:7)

(White Russia--Field crops--Fertilizers and manures)

ZHDANSKI, K.

NARAI, Zh.; ZHDANSKI, K.

High-tension voltage regulators with low pedestal voltage. Prib.1
tekh.eksp. no.2:108-112 3-0 '56. (MLRA 10:2)

1. TSentral'nyy nauchno-issledovatel'skiy institut fiziki Akademii
nauk Vengrii, otdelenie kosmicheskogo izlucheniya.
(Voltage regulations)

ZDAROV,

Zdarov, "The mechanization of washing and drying of metal products", Sbornik
solr. dokladov Srat. gor. nauch.-tekhn. konf-tsi prodpryatiy mashinostroit.
i metalloobrabat. prom-sti, Saratov, 1949, p. 108-11.

SO: U-3261, 10 April 53, (Letopis 'Zhurnal 'nykh Statey, No. 11, 1949).

The oil from the seeds of *Perilla esomoides* from Kuban. M. ZOUAN L'HERMITE.
Moskoben-Zherovsk-Delo 1920, No. 2, 44-7. The seeds have the following composition %: moisture 6.30, protein 23.12, oil 45.07. N-free extractive matter 10.28, crude fiber 10.28, ash 4.04, essential oil 0.29. The essential oil has sapon. no. 24.8, acid no. 2.6, ester no. 22.2. The cold-pressed oil has an exceptionally light color. The taste is similar to that of linseed oil. The specific odor is obviously caused by the presence of the essential oil. By heating the oil to 110-115° it becomes considerably lighter in color. On prolonged heating with the exclusion of air the oil thickens, indicating its ability to polymerize. On rapid heating within 10-15 min. to 350° it thickens to such an extent that it cannot be poured. Its flash-point is 377° at 320°. The oil remains liquid until that it cannot be poured. It thickens at -30°, even at very low temps. At -26° it becomes slightly turbid, thickens at -10° and becomes again mobile and clear at -25°. Its d. is 0.9304. The increase of temp. at bromination is 37.0° from which an iodine no. of 206 is calculated. The oil has acid no. 0.007, sapon. no. 19.106, ester no. 180.91, Reichert-Meissl no. 1.43, Polenske no. 1.62, acetyl no. 0.71, i. no. 203.08, hexabromide no. 63.65, unsapon. 0.3%, Ichnor no. 93.8. These const. point to the presence of highly unsatd. acids and low content of volatile and hydrony acids. The acids m. -4.8°, solidify -8°, i. n. 200.3. The solid and hydrony acids were sepd. through their Pb salts. Only 3.37% of solid acids were present. The solid acids had f no. 1.44, sapon. no. 197.8, m. 56.5°, which is the m. p. of a eutectic mixt. of stearic and palmitic acids. The liquid acids, hexabromide m. 179°, contained mixt. of stearic and palmitic acids. The liquid acids, hexabromide m. 179°, contained mixt. of stearic and palmitic acids. The liquid acids, hexabromide m. 179°, contained mixt. of stearic and palmitic acids. The liquid acids, hexabromide m. 179°, contained mixt. of stearic and palmitic acids.

The present compos. of the press cake and bran were: rap. oil 17.62, 18.70; fiber 16.34, 18.58; ash 7.02, 8.23. The raw oil, when spread on glass, dries only in 120 hrs. This slow drying is due to the fact that the raw oil has the tendency to coalesce on glass, preventing the formation of a thin film. By heating the oil to 200-250° this tendency disappears and an elastic, clear film results in 60 hrs. These perilla oil films possess very high dielectric properties.

H. BILLORETT

R. BILLORETTI

CP

27

The effect of drying castor beans on the oil. M. Zhdan-Pushkin and M. Solodova. *Moskobelno-Zhivinskoe Dole* 1934, No. 6, 15-17. -- The drying of the castor beans at temps. of 150-170° for 1-10 min. decreases the acid no. (owing to volatilization of the free acids) and causes polymerization of both the free acids and oil. B. H.

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721

| 1ST AND 2ND GROUPS | | | | | | | | | | 3RD AND 4TH GROUPS | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--------------------|--|--|--|--|--|--|--|--|--|
| PROCESSING AND PROPERTIES INDEX | | | | | | | | | | | | | | | | | | | |
| <p>CA</p> <p>"Casein" from castor-oil cakes. M. Zilman-Pushkin and A. Sokolova. <i>Mashino-Zhironie</i> (Mash. No. 3, 19 23). By treating the oil-free cakes of castor-oil with NaOH (1% aq.) at 40-45° for 2 hrs. and subsequently sep. the proteins with 3.5% HCl, a yield of 40.5% (of the wt. of the cake) of crude "casein" was obtained. E. Hekouss</p> | | | | | | | | | | | | | | | | | | | |
| <p>ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION</p> | | | | | | | | | | | | | | | | | | | |

1. BARYSHNIKOVA, P.P. ZHDANYUK, K.S. KOLOTILINA, N.D.

2. USSR (600)

4. Iron Founding

7. Using "P4Orgavtoprom" binder for first class cores. Lit.proizv. No. 12 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

ZHDANOV'S, D. A.

Sep/Oct 53

USSR/Medicine - Lymph Flow

"Criticism of Some Theories of the Course of Lymph Flow," G.F. Ivanov

Arkhiv Anat, Gist, i Embr, Vol 30, No 5, pp 78-84

Author criticizes a statement made by D.A. Zhdanov that exptl methods of research in anatomy are over-rated and that macro-microscopic methods should be more fully utilized. Says that to limit research to macro-microscopic methods would be to transform the study of anatomy back into a process of collecting disconnected facts. D.A. Zhdanov's book,

273734

"General Anatomy and Physiology of the Lymph System," is also subjected to criticism as containing inconsistencies and deviations from Pavlov's physiology.

273734

ZHDANOVSKIY, N.S.; KOVALEV, I.M.; KHASHCHINSKIY, V.P., professor.

[Rural thermal electric power stations] Sel'skie teplovye elektro-
stantsii. Pod red. V.P.Khashchinskogo. Moskva, Gos. izd-vo sel'khoz.
lit-ry, 1953. 123 p. (V pomoshch' sel'skim elektrifikatoram)

(MLRA 7:3)

(Electric power plants) (Heat engines)

ZHDANOVSKIY, N. S.

Zhdanovskiy, N. S. - "Investigation of the working process of a tractor diesel engine using shale fuel", Sbornik nauch.-tekhn. rabot (Leningr. in-t mekhanizatsii sel. khoz-va), V, 1948, p. 97-116.

SO: U-3261, 10 April 53, (Letopis 'Zhurnal 'nykh Statey, No. 12, 1949).

ZHDAROV, D.A.

[Modern methods and techniques of morphological research]
Sovremennye metody i tekhnika morfologicheskikh issledovaniy.
Leningrad, Medgiz, 1955. 269 p. (MLRA 9:1)
(MORPHOLOGY)

ZHDAVCE, G. S., ZVONKOVA, Z. V.

Electrons

Distribution of electron density of crystalline complex compounds. Zhur. eksp. i teor. fiz., 22, no 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1953, Uncl.

2

CHERNYSHEV, A.V., inzh.; ZHDED, A.A., inzh.

P.A.Iapshin brigade of communist labor. Shakht. stroi. 6 no.3:
24-25 Mr '62. (MIRA 15:3)

1. Novomoskovskiy Dom inzhenera i tekhnika (for Chernyshev).
2. Shakhta No.66 kombinata Tulaugol' (for Zhded).
(Tula Basin--Coal mines and mining)

ZHDANSKIY, V.G., inzh.

Effective means of preparing a silicate substance. Stroil. mat.
7 no.4:29 Ap '61, (MIRA 14:5)

(Silicates)

BALEK, A.; GABESAM, L., inzh.; KHAVELKOVA, B., inzh.; STITSKEL, I., inzh.;
SHVAGR, Ya., inzh.; TITERA, D., inzh. ZHDYARSKIY, M., doktor;
SEMMENOV, I.I. [translator]; KORMNOV, Yu.F., red.; SHAGALOV, G.L.,
red.; REZOUKHOVA, A.G., tekhn.red.

[Economic development of Czechoslovakia from 1948 through 1958]
Ekonomicheskoe razvitie Chexoslovaki, 1948-1958 sg. Red.IU.F.
Kormnov. Moskva, Izd-vo inostr.lit-ry, 1959. 367 p. Translated
from the Czech. (MIRA 13:4)

1. Gosudarstvennoye statisticheskoye upravleniye Chexoslovaki
(for Balek, Gabesam, Khavelkova, Stitskel, Shvagr, Titera, Zhdysarskiy).
(Czechoslovakia--Economic conditions)

ZHDYMORA, I. (Tiraspol')

To the fund of the seven-year plan. MTO no.3:16-17 M. '59.
(MIRA 12:6)

1. Zamestitel' predsedatelya soveta pervichnoy organizatsii
nauchno-tekhnicheskogo obshchestva pishchevoy promyshlennosti
konservnogo zavoda imeni 1 Maya.
(Tiraspol--Canning industry)

ZHEBEK, Z. [Zsebok, Zoltan]

Significance of radiation shielding materials in the light
of contemporary radiological investigations. Periodica
polytechn electr 6 no.1:XXII-XXIII '62.

LEBEK, Z. [Isabek, Z.] prof.

Angiography and the tumors of extremities. Periodica polytechnica
electr. 7 no. 4: XVI-XXII, 1963.

ZHEBEK, Z. [Zeebok, Z.]; MESHTER, E. [Mester, E.]

Role and significance of the "hard rays" in the contemporary roentgen
diagnostic investigations. Periodica polytechnica electr 5 no.3:274-286
'61.

ZHEBEL', B. G.

Zhebel', B. G. -- "Development of Scanning by an Oscillating Ray and Its Application in Television." Min Communications USSR, Leningrad Electrical Engineering Inst of Communications imeni Professor M. A. Bonch-Bruyevich, Leningrad, 1955 (Dissertation for Degree of Candidate of Technical Sciences).

SO: Knizhnaya Letopis', No. 23, Moscow, June, 1955, pp. 87-104.

6.6000

S/112/59/000/012/090/097
A052/A001

Translation from: Referativnyy zhurnal, Elektrotehnika, 1959, No. 12, pp. 258-259, # 25732

AUTHOR: Zhebel', B.G.

8

TITLE: Rocking Beam Scanning and Its Application to Television

PERIODICAL: Sb. tr. Lenigr. elektrotekhn. in-ta svyazi, 1957, No. 2 (32), pp. 29-34

TEXT: Principles and special features of rocking beam scanning are described. By complementing the beam deflection in horizontal and vertical direction with a longitudinal or lateral swing by means of auxiliary generators of rectangular, sinusoidal and some other pulses, the sharpness of the image can be improved, the scanning frequency can be reduced, the time selection of video signals can be brought about, and so on. ✓B

L.I.K.

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

^{G.}
ZHEBEL', B., kand. tekhn. nauk; ODNOL'KO, V., kand. tekhn. nauk

Color television. IUn. tekhn. 3 no. 12:43-45 D '58.

(MIRA 12:1)

(Color television)

ZHEBELEV, A.

Solved and unsolved problems. Na stroi. Ros. 3 no.10:27-29
0 '62. (MIRA 16:6)

1. Glavnyy mekhanik stroitel'stva Bratskoy gidroelektrostantsii.
(Bratsk Hydroelectric Power Station--Construction
equipment)

SOV/123-59-16-66925

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 16, p 430 (USSR)

AUTHOR: Zhebelev, V.K.

TITLE: On the Problem of the Temperature Condition of the Piston of the High-Speed YaAZ-204 Diesel Engine

PERIODICAL: Izv. Irkutskogo s.-kh. in-ta, 1958, vyp. 8, 141 - 157

ABSTRACT: A method is described of investigating the temperature field of the piston when operating under various conditions. The results of temperature measurements are stated. The most strained parts with respect to temperature are those parts of the surface which are located nearer to the edge. The non-uniform distribution of temperature promotes the formation of cracks. Measures are suggested to eliminate the defects.

Card 1/1

ZHEBELY, V. K., Engineer

"Methods for Determination and Investigation of the Temperature Condition of Crankgear Components of a Two-Cycle High-Speed Diesel in Relation to Various Operating Conditions." Sub 18 May 51, Moscow Inst for the Mechanization and Electrification of Agriculture imeni V. M. Molotov

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

AMIROVA, S.A.; PECHKOVSKIY, V.V.; PROKHOROVA, V.G.; ZHEBELEVA, T.V.;
LEZHNEVA, A.A.

Oxidation of manganese-vanadium spinel by oxygen. Zhur. fiz. khim.
38 no.1:108-114 Ja'64. (MIRA 17:2)

1. Permskiy politekhnicheskii institut.

AKSEIMOV, Yu.V.; VEREVKIN, N.S.; ZHEBEL', B.G.; ZLOTNIKOV, S.A.;
KOLIN, K.T.; KONDRAT'YEV, A.G.; MINENKO, Yu.G.; ODNOL'KO,
V.V.; TARANETS, D.A.; SHMAKOV, P.V., red.; VENGRENYUK, I.I.,
red.; KARABILOVA, S.F., tekhn.red.

[Television; general course] Televidenie; obshchii kurs. Pod
red. P.V.Shmakova. Moskva, Gos.izd-vo lit-ry po voprosam aviatsii
i radio, 1960. 391 p. (MIRA 13:12)
(Television)

ZHEBEL', B., kand.tekhn.nauk; DZHAKONIYA, V., inzh.

Three-dimensional color television. Tekh.mol. 28 no.8:35-36
'60. (MIRA 13:9)

(Color television)

ZHEBEL', Boris Georgiyevich; SEMAKOV, P.V., doktor tekhn. nauk,
nauchnyy red.; VOROB'YEV, G.S., red. izd-va; GURDZHIYEVA,
A.M., tekhn. red.

[Color television] TSvetnoe televidenie. Leningrad, Ob-vo
po rasprostraneniю polit. i nauchn. znaniy, 1961. 62 p.
(MIRA 15:4)

(Color television)

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064630003-7

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064630003-7"

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064630003-7

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064630003-7"

AMIROVA, S.A.; PECHKOVSKIY, V.V.; PROKHOROVA, V.G.; ZHEBELEVA, T.V.

Oxidation of manganous oxide by oxygen. Zhur. fiz. khim. 37
no.6:1328-1335 Je '63. (MIRA 16:7)

1. Permskiy politekhnicheskii institut.
(Manganese oxides) (Oxygen)

ЗРЕБЕНКА, Р.

ZHEBENKA, R.

4692 Zhebenka, R. Problema Podnyatiya Produktivnosti Zhivotnovodstva
V kolkhozakh i sovkhovakh sovetskoy Litvy. vil'nyus, gospolitn-
auchizdat, 1954. 24 s. 22 sm. (o-vo po rasprostraneniyu polit i nauch.
znaniy litov. SSR) 6.000 ekz. 35k-nalitov. Yaz-(54-57048) 338.1:636(47.45)

SO: Letopis' Zhurnal' nyph Statey, Vol 7, 1949

USSR / Farm Animals. General Problems.

2-1

Abs Jour: Ref Zhur-Biol., No 23, 1958, 105634.

Author : Zhebenka, R., Pakenas, P.

Inst : ~~Not given.~~

Title : Artificial Insemination of Animals.

Orig Pub: Soc. zemes ukis., 1957, No 12, 18-24.

Abstract: No abstract.

ZHEBENKA, R.P. [Zebenka, R.P.], kand. sel'skokhozyaystvennykh nauk; PAKENAS,
P.I., kand. biol. nauk

Organization of breeding work in the Lithuanian S.S.R. Zhivotnovod-
stvo 21 no.11:43-47 N '59 (MIRA 13:3)

1. Direktor Litovskogo nauchno-issledovatel'skogo instituta zivotno-
vodstva i veterinarii (for Zhebenka). 2. Zavednyushchiy laboratorii-
yey iskusstvennogo osemeneniya sel'skokhozyaystvennykh zivotnykh.
(Lithuania--Stock and stockbreeding)

ZHEBENKA, R.P. [Zebenka, R.P.]

Increasing the butterfat content of dairy cattle in the
Lithuanian S.S.R. Zhivotnovodstvo 23 no.8:38-42 Ag '61.
(MIRA 16:2)

1. Direktor Litovskogo nauchno-issledovatel'skogo instituta
zhivotnovodstva.

(Lithuania—Dairy cattle breeding)

MAICHAK, S. M.; ~~MAICHAK~~

"Study of ram spermatogenesis by means of radioactive phosphorus with different feeding and frequency of use."

report submitted for 5th Intl Cong on Animal Reproduction & Artificial Insemination, Trent, Italy, 6-13 Sep 64.

ROZENFEL'D, L., prof.; KHARITONOV, V., inzhener; ONOSOVSKIY, V., inzhener;
MANUYLO, N., inzhener; ZHEBENKO, A., inzhener; BAKALLO, N., inzhener.

Testing the cooling equipment of the refrigerated ship "Aktiubinsk."
Khol.tekh. 34 no.2:6-10 Ap-Je '57. (MIRA 10:10)
(Refrigeration and refrigerating machinery--Testing)
(Refrigeration on ships)

ZHEBENKO, A.

AUTHORS: Rozenfel'd, L. (Professor), Kharitonov, V., Onosovskiy, V., Mamuylo, N., Zhebenko, A., and Bakallo, N. (Engineers). 66-2-2/22

TITLE: Investigation of the refrigeration equipment of the refrigerator ship, "Aktyubinsk". (Ispytaniya kholodil'nogo oborudovaniya refrizheratornogo sudna "Aktyubinsk").

PERIODICAL: "Kholodil'naya Tekhnika" (Refrigeration Engineering), 1957, No.2, pp.6 - 10 (USSR).

ABSTRACT: The results are described of tests of a refrigerated Diesel-electric ship, carried out by the Chair of Refrigeration Machinery of the Leningrad Technological Institute in cooperation with the team of a Baltic plant. The refrigeration machinery was designed by the Central Refrigeration Machinery Design Office and manufactured by the Moscow "Compressor" Works. The "Aktyubinsk" has a displacement of 10 250 tons and is one of a larger series of refrigerator vessels. It has 5 refrigerated holds and 5 refrigerated 'tween decks of a useful volume of 6700 m³, enabling transportation of 2700 tons of frozen or 3350 tons of chilled fish. The refrigerated holds and 'tween decks are subdivided into a fore and an aft group, each of which can operate at differing temperatures. The cooling of the holds and the 'tween decks is effected by a solution of calcium chloride. In single stage operation a temperature of -6 C

Card 1/3

Investigation of the refrigeration equipment of the
refrigerator ship, "Aktyubinsk". (Cont.) 66-2-2/22

can be maintained in the holds and in the 'tween decks whilst in 2-stage operation a temperature of -18 C can be maintained so that it is possible to maintain a temperature of -6 C in one group of chambers and 'tween decks and a temperature of -18 C in the other group. The characteristics of the refrigeration machinery were established at the test stand of the "Compressor" works and have been described in an earlier paper (1). The results of the tests of the refrigerator ship are discussed and summarised in 2 tables. During the tests the entire refrigeration equipment operated satisfactorily, the insulation of the refrigerated holds and 'tween decks is of good quality and operated satisfactorily. The adopted 2-stage system is very simple in operation but the author considers it advisable to develop a circuit with an intermediate steam extraction applicable for marine use and to compare the respective technical and economic indices. To gain a clearer picture on the correct selection of the type of refrigeration machinery the applied 2-stage set MXM-ADC-150 should be compared with a high r.p.m. multi cylinder compressor, both stages being in a single unit. For marine conditions it may be of interest

Card 2/3

Investigation of the refrigeration equipment of the
refrigerator ship, "Aktyubinsk". (Cont.) 66-2-2/22

to use a rotational compressor as a booster compressor of
the lower stage. A number of slight inadequacies revealed
during the tests should be eliminated and further control
and metering instruments should be installed.

There are 3 figures, 2 tables and 1 Slavic reference.

AVAILABLE:

Card 3/3

ZHEBERSTOV, V.I.; ADAMSKIY, Z.I.

Criterion of light sensitivity established by the International Organization for Standardization as applied to industrial photographic films. Zhur.nauch.i prikl.fot. i kin. 5 no.6:450-451 N-D '60. (MIRA 14:1)

1. Moskovskiy poligraficheskiy institut.
(Photographic sensitometry—Standards)
(Photography—Films)

ZHEBIN, A.I.; BALINCHENKO, I.I.; KARAGODIN, L.N., kand.tekhn.nauk;
SIMONOV, A.A., inzh.

Article "Safety measures in baring coal intercalation." Bezop.
truda v prom. 6 no.2:21-23 F '62. (MIRA 15:2)

1. Pomoshchnik glavnogo inzh. shakhty "Kommunist-Novaya" tresta
Oktyabr'ugol' (for Zhebin). 2. Nachal'nik opornogo punkta Ma-
keyevskogo nauchno-issledovatel'skogo instituta po bezopasnosti
rabot v gornoy promyshlennosti pri shakhte "Kommunist-Novaya"
tresta Oktyabr'ugol' (for Balinchenko). 3. Makeyevskiy nauchno-
issledovatel'skiy institut po bezopasnosti rabot v gornoy pro-
myshlennosti (for Karagodin, Simonov).

(Coal mines and mining--Safety measures)
(Shchukin, V.R.)

ZHEBIN, Moisey Isaakovich; SHAMIRGON, S.A., nauchnyy red.; IONOV, V.N., red.; GLAZKOVA, Ye.I., red.; DORODNOVA, L.A., tekhn. red.

[Molder employed in manual molding] Formovshchik ruchnoi formovki. Moskva, Proftekhizdat, 1962. 294 p. (MIRA 16:1)
(Molding (Founding))

ZHEBIN, M. I., Engineer

"Investigation of the Processes of Surface Drying of Casting Molds With Infrared Rays." Sub 9 Jan 51, Moscow Machine Tool and Tool Inst imeni I. V. Stalin

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

① ✓
Surface drying of foundry molds by infrared rays. M. I. Zuehin. *Litelsnoe Proizvodstvo* 1953, No. 10, 4-8. By using 500-w. lamps placed in a square pattern 200 mm. on the side, the rate of drying of sand molds was investigated. The study covered the influence of many factors which is presented in many curves, and the whole of the accumulated data is summarized in a formula giving energy required for drying derived as a resultant of 10 factors involved and then presented as nomograms for the time of drying to a specific depth and for the depth of the dried layer. J. D. Cat

874. SURFACE DRYING OF GUMS INDUCED BY INFRARED RADIATION.
Zhebin, N.I. (Litsip. Proizv. (Found. Ind., U.S.S.R.), Vol. 1953, 4-6).

ZHEBIN, M.I.

Surface drying of casting patterns by means of infrared rays.
Lit. proizv. no.10:4-8 N-D '53.

(MLRA 6:12)

(Patternmaking)

TETUSHKIN, A., shturman-aeros"yemshchik; SOROKIN, S., shturman-aeros"yemshchik;
ZHEBKO, V., shturman-aeros"yemshchik; CHUGUNKIN, M., shturman-
aeros"yemshchik.

Improving the training of aerial navigators-photographers. Grazhd.
av. 12 no.7:16 JI '55. (MIRA 11:6)
(Navigation (Aeronautics)) (Photography, Aerial)

37279

S/169/62/000/004/064/103
D228/D302

99842

AUTHORS:

Chegoryan, V.A., and Zhebko, V.M.

TITLE:

Investigating horizontal movements of ionization irregularities in the ionosphere over Khar'kov in the IGY period

PERIODICAL:

Referativnyy zhurnal. Geofizika, no. 4, 1962, 8, abstract 4G41 (Mezhdunar. geofiz. god, Inform. byul., no. 3, 1962, 24-29)

TEXT: The results of measuring the speed and the directional distribution of the drift of small-scale ionization irregularities in the ionosphere's E- and F-regions are given for different seasons of the year in the period from December 1958 to December 1959. The employed apparatus and the program and the method of the observations are briefly described. It is shown that speeds of 70 - 90 m/sec (in winter and autumn) and 40 - 70 m/sec (in spring and summer) are most often encountered in the ionosphere's F-region. The drift direction is east-west. In the ionosphere's E-region the velocity is 60 - 100 m/sec (in winter and autumn) and 40 - 80 m/sec (in summer).
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mer and spring). The drift direction is westwards and southwards, with small deviations towards the north and the east. Comparison of the results, obtained at two stations (distance of ~ 85 km), discloses the coincidence in the character of the speed distribution, but there is no complete congruence in the distribution of the directions. [Abstractor's note: Complete translation]. X

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30153

S/609/61/000/003/001/008

DC39/D112

9.9/10

AUTHOR:

Taran, V.I.; Zhebko, V.M.

TITLE:

The measurement of velocities of the drift of heterogeneities in the E and F zones of the ionosphere in accordance with the International Geophysical Year program

SOURCE:

Akademiya nauk Ukrayins'koyi RSR. Organizatsionnyy komitet po provedeniyu Mezhdunarodnogo geofizicheskogo goda. Mezhdunarodnyy geofizicheskoy god; informatsionnyy byulleten', no.3, 1961, 13-18

TEXT: The present paper covers the results of experimental investigations of the velocities and directions of the drift of heterogeneities in the E and F zones of the ionosphere. These investigations were carried out, in accordance with the program of the International Geophysical Year, in Far'kov and cover the period from Aug 24, 1957 to Nov, 1958. The measurements were conducted according to a graphical method proposed in Ref. 1 (Ref. 1: Instruction Manual, No V, The Ionosphere, vol. III, The measurement of ionospheric drifts, 1956). V.P. Dokuchayev (Ref. 3: Izv. vyssh. ucheb. zavedeniy, seriya radio-

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The measurement of velocities ...

tekhnicheskaya, No 1, 1958) had previously found that in the lower part of the E region the ionized gas moved at the velocity of the wind, while in the F region, the velocity of a homogeneous ionized mass differed noticeably from the wind velocity. In the present study of the velocity of the drift of heterogeneities, provision was made for the recording of amplitudes of radio-waves reflected from the ionosphere at three points on the earth's surface; the distance between each point was of the order of one wavelength. An ionospheric-station transmitter, developed by the Khar'kovskiy politekhnicheskii institut (Khar'kov Polytechnic Institute) and mentioned in the paper of V.V. Polstoy and B.G. Bondar' (Ref. 4: Inform. byull. MGU, No 1, 1958, AN UkrSSR, 1958), was used in these investigations. The reflected signals were recorded at three spots located 144 m from one another. The receiving antennas were placed on open land. Tuned single-loop rectangular coils with a side of 2 m were used as receiving antennas on the 2.2-Mc band, and 15 m dipoles on the 4.5-8 Mc band. A receiver fitted with an electronic commutator as described in Ref. 4, as well as a ring scaler operating on vacuum tubes built around binary cells, were also used. The ring scaler was described in the

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paper of M.M. Bonch-Bruyevich (Ref. 5: *Primeneniye elektronnykh lamp v eksperimental'noy fizike* [The application of electronic tubes in experimental physics], GITTL, 1954, str. 505). Up to June 1958, the drift in the F region was measured at night, and from June on - at day time. It was found that for the E region the predominant velocity of the drift of heterogeneities was 50-60 m/sec and for the F region - 50-60 and 80-90 m/sec. During the period under study, the direction of the drift of heterogeneities in the E region was chiefly southerly and easterly. From Aug 1957 to Nov 1958, the drift in the F zone was southerly and easterly, and from Sept to Nov 1958, mainly easterly. Over the whole period of measurements the direction of the drift in the E and F zones coincided to a certain degree. The following conclusions were drawn from the results: (1) the difficulties of determining the true height of the drifts made it difficult to find the main directions of the drifts and their diurnal and seasonal variations; (2) very high solar activity often caused abnormal phenomena in the ionosphere which considerably complicated the analysis of processes taking place there; (3) the high gradient of the velocity and direction of the drift according to height, ✓

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can lead to a sharp change of the velocity and direction of the drift even upon a small change of the effective height; (4) the predominant velocity of the drift for the E region was found to be about 50-60 m/sec and that for the F region - about 50-60 and 80-90 m/sec. In the F region the drift was south-westerly and easterly, and in the E region - southerly and easterly. Both authors express their acknowledgement to B.L. Kashcheyev for the supervision of this research work. There are 12 figures and 6 references: 4 Soviet-bloc and 2 non-Soviet-bloc. The two references to English-language publications read as follows: Instruction Manual, No V, The Ionosphere, vol III, The measurement of ionospheric drifts, 1956; I.L. Jones, B. Landmarc a. C.S.K. Setty, Movements of ionospheric irregularities observed simultaneously by different methods, J. of Atmosph. Terr. Phys., vol. 10, 1957. X

ASSOCIATION: Khar'kovskiy politekhnicheskii institut (Khar'kov Polytechnic Institute).

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30155
S/609/61/000/003/003/008
D039/D112

9.9/10

AUTHORS: Chegoryan, V.A.; Zhebko, V.M.

TITLE: An investigation of the horizontal movements of the ionization heterogeneities in the ionosphere, conducted over Khar'kov in the International Geophysical Cooperation period

SOURCE: Akademiya nauk Ukrayins'koyi RSR. Organizatsionnyy komitet po provedeniyu Mezhdunarodnogo geofizicheskogo goda. Mezhdunarodnyy geofizicheskiy go. informatsionnyy byulleten', no. 3, 1961, 24-29

TEXT: The paper presents results of measurements of the velocity and directional distribution of the drift of ionization heterogeneities in the E and F regions of the ionosphere. The results cover the period from December 1958 to December 1959, and are given for various seasons of the year. The investigation was conducted both at a field laboratory located 85 km from Khar'kov and at the Khar'kovskiy politekhnicheskii institut (Khar'kov Polytechnic Institute). The horizontal drifts were investigated by the method of spaced

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An investigation of the ...

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antenna reception. All observations were carried out in accordance with the approved international program of measuring the drifts in the ionosphere both on the "regular world days", and on other days. The recordings were processed by the method of similar fadings mentioned in the papers of S.N. Mitra (Ref. 1: Statistical analysis of fading of a single downcoming wave from the ionosphere, Proc. of the I.E.E., 1949, v. 96, p. III, 505, and Ref. 2: A Radio Method of Measuring Winds in the Ionosphere, Proc. of the I.E.E., 1949, v. 96, p. III, 441.). The ionospheric station used at the field laboratory is described by V.I. Taran and V.M. Zhebko (Ref. 3: "Mezhdunarodnyy geofizicheskiy god", Inf. byulleten' No 3, Izd-vo AN UkrSSR, 1961) and by V.V. Tolstov and B.G. Bondar' (Ref. 4: "Mezhdunarodnyy geofizicheskiy god", Inf. byulleten' No 1, Izd-vo AN UkrSSR, 1958.). The ionospheric station used at the Khar'kov Polytechnic Institute is described by N.T. Tsymbal (Ref. 5: Izvestiya vuzov MVO, "Radiotekhnika", No 2, 1959, 221.). The observations at the field laboratory were carried out on a near-gyromagnetic frequency. The investigations at the field laboratory were carried out from December 1958 to December 1959 and were based on 230 recordings for the E region and 383

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